

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (original) A method for making a stator, the method comprising:
installing a first set of concentric coil groups through a first end of a stator core, whereby leads of the first set of concentric coils exit the first end of the stator core;
installing a second set of concentric coil groups through a second end of the stator core, whereby leads of the second set of concentric coils exit the second end of the stator core;
installing a third set of concentric coil groups through the first end of the stator core, whereby leads of the third set of concentric coils exit the first end of the stator core; and
installing a fourth set of concentric coil groups through the second end of the stator core, whereby leads of the fourth set of concentric coils exit the second end of the stator core.
2. (original) The method of claim 1, wherein at least one coil of the third set of concentric coil groups is installed over a coil of the first set of concentric coils in a slot of the stator core.
3. (original) The method of claim 2, wherein at least one coil of the fourth set of concentric coil groups is installed over a coil of the second set of concentric coils in a slot of the stator core.
4. (original) The method of claim 1, wherein at least one coil of each coil group is installed in a respective stator slot with a coil of a different coil group.

5. (original) The method of claim 4, wherein at least one coil of each coil group is installed singularly in a respective stator slot.

6. (original) The method of claim 1, wherein the coil groups define a four-pole, three-phase stator.

7. (original) The method of claim 1, wherein the coil groups are disposed in an order of A1, B4, C2, A3, B1, C4, A2, B3, C1, A4, B2, and C3, where A, B and C represent alternating current phases, and 1, 2, 3 and 4 represent coil groups of the first, second, third and fourth sets, respectively.

8. (original) The method of claim 7, wherein the stator core includes 72 slots and each coil group includes 4 coils.

9. (currently amended) The method of claim 1, wherein the coil groups are installed ~~as set forth in Table 2~~ in accordance with the following distribution:

Slot	Winding(s)
1	A1a
2	A1b
3	A1c/B2d
4	A1d/B2c
5	B2b
6	B2a
7	B4a
8	B4b
9	C3d/B4c
10	C3c/B4d
11	C3b
12	C3a
13	C2a
14	C2b
15	A1d/C2c
16	A1c/C2d
17	A1b
18	A1a

19 A3a
20 A3b
21 A3c/B4d
22 A3d/B4c
23 B4b
24 B4a
25 B1a
26 B1b
27 B1c/C2d
28 B1d/C2c
29 C2b
30 C2a
31 C4a
32 C4b
33 A3d/C4c
34 A3d/C4d
35 A3b
36 A3a
37 A2a
38 A2b
39 B1d/A2c
40 B1c/A2d
41 B1b
42 B1a
43 B3a
44 B3b
45 B3c/C4d
46 B3d/C4c
47 C4b
48 C4a
49 C1a
50 C1b
51 C1c/A2d
52 C1d/A2c
53 A2b
54 A2a
55 A4a
56 A4b
57 B3d/A4c
58 B3c/A4d
59 B3b
60 B3a
61 B2a
62 B2b

63 C1d/B2c
64 C1c/B2d
65 C1b
66 C1a
67 C3a
68 C3b
69 C3c/A4d
70 C3d/A4c
71 A4b
72 A4a,

wherein upper case letters A, B, and C indicate respective phases, digits 1, 2, 3 and 4 represent coil groups, and lower case letters a, b, c and d represent individual coils of each group.

10. (original) The method of claim 1, wherein the stator core is rotated between each installation step.

11. (withdrawn) A method for making a stator, the method comprising: installing first and third sets of concentric coil groups in a stator core, whereby leads of the first and third sets of concentric coils exit the first end of the stator core; and installing a second and fourth sets of concentric coil groups in the stator core, whereby leads of the second and fourth sets of concentric coils exit the second end of the stator core.

12. (withdrawn) The method of claim 11, wherein the first and third sets of concentric coil groups are installed through the first end, and the second and fourth sets of concentric coil groups are installed through the second end.

13. (withdrawn) The method of claim 12, wherein the stator core is rotated between the installation of the first and third coil group sets and installation of the second and fourth coil group sets.

14. (withdrawn) The method of claim 12, wherein the stator core is rotated between installation of the first and second coil group sets, between installation of the second and third coil group sets, and between installation of the third and fourth coil group sets.

15. (withdrawn) The method of claim 12, wherein at least one coil of the second and fourth coil group sets is installed over a coil of the first and third coil group sets in respective slots of the stator core.

16. (withdrawn) The method of claim 15, wherein at least one coil of each coil group set is installed singularly within a respective slot of the stator core.

17. (withdrawn) The method of claim 12, wherein the coil groups define a four-pole, three-phase stator.

18. (withdrawn) The method of claim 12, wherein the coil groups are disposed in an order of A1, B4, C2, A3, B1, C4, A2, B3, C1, A4, B2, and C3, where A, B and C represent alternating current phases, and 1, 2, 3 and 4 represent coil groups of the first, second, third and fourth sets, respectively.

19. (withdrawn) The method of claim 12, wherein the stator core includes 72 slots and each coil group includes 4 coils.

20. (withdrawn) The method of claim 12, wherein the coil groups are installed as set forth in Table 2.

21. (original) A method for making a four-pole, three-phase stator, the method comprising:

installing a first set of concentric coil groups through a first end of a stator core, whereby leads of the first set of concentric coils exit the first end of the stator core;

rotating the stator core;
installing a second set of concentric coil groups through a second end of the stator core, whereby leads of the second set of concentric coils exit the second end of the stator core;
rotating the stator core;
installing a third set of concentric coil groups through the first end of the stator core, whereby leads of the third set of concentric coils exit the first end of the stator core;
rotating the stator core; and
installing a fourth set of concentric coil groups through the second end of the stator core, whereby leads of the fourth set of concentric coils exit the second end of the stator core.

22. (original) The method of claim 21, wherein the stator core is rotated about a central vertical axis.

23. (original) The method of claim 21, wherein at least one coil of each group of the second coil group set is installed over a coil of a group of the first coil group set in a respective slot of the stator core.

24. (original) The method of claim 23, wherein at least one coil of each group of the fourth coil group set is installed over a coil of a group of the third coil group set in a respective slot of the stator core.

25. (original) The method of claim 21, wherein at least one coil of each group is installed singularly within a respective slot of the stator core.

26. (original) The method of claim 21, wherein the coil groups are disposed in an order of A1, B4, C2, A3, B1, C4, A2, B3, C1, A4, B2, and C3, where A, B and C represent alternating current phases, and 1, 2, 3 and 4 represent coil groups of the first, second, third and fourth sets, respectively.

27. (original) The method of claim 21, wherein the stator core includes 72 slots and each coil group includes 4 coils.

28. (currently amended) The method of claim 21, wherein the coil groups are installed ~~as set forth in Table 2.~~ in accordance with the following distribution:

Slot	Winding(s)
1	A1a
2	A1b
3	A1c/B2d
4	A1d/B2c
5	B2b
6	B2a
7	B4a
8	B4b
9	C3d/B4c
10	C3c/B4d
11	C3b
12	C3a
13	C2a
14	C2b
15	A1d/C2c
16	A1c/C2d
17	A1b
18	A1a
19	A3a
20	A3b
21	A3c/B4d
22	A3d/B4c
23	B4b
24	B4a
25	B1a
26	B1b
27	B1c/C2d
28	B1d/C2c
29	C2b
30	C2a
31	C4a

32 C4b
33 A3d/C4c
34 A3d/C4d
35 A3b
36 A3a
37 A2a
38 A2b
39 B1d/A2c
40 B1c/A2d
41 B1b
42 B1a
43 B3a
44 B3b
45 B3c/C4d
46 B3d/C4c
47 C4b
48 C4a
49 C1a
50 C1b
51 C1c/A2d
52 C1d/A2c
53 A2b
54 A2a
55 A4a
56 A4b
57 B3d/A4c
58 B3c/A4d
59 B3b
60 B3a
61 B2a
62 B2b
63 C1d/B2c
64 C1c/B2d
65 C1b
66 C1a
67 C3a
68 C3b
69 C3c/A4d
70 C3d/A4c
71 A4b
72 A4a,

wherein upper case letters A, B, and C indicate respective phases, digits 1, 2, 3 and 4 represent coil groups, and lower case letters a, b, c and d represent individual coils of each group.

29. (withdrawn) A method for making a stator, the method comprising: installing a plurality of concentric coil groups in slots of a stator core in an order of A1, B4, C2, A3, B1, C4, A2, B3, C1, A4, B2, and C3, where A, B and C represent alternating current phases, and 1, 2, 3 and 4 represent coil groups of the first, second, third and fourth sets, respectively, and wherein groups A1, B4, C2, A2, B3 and C1 are installed through a first end of the stator core whereby coil leads of each group exit the stator core through the first end, and groups A3, B1, C4, A4, B2 and C3 are installed through a second end of the stator core whereby coil leads of each group exit the stator core through the second end.

30. (withdrawn) A method for making a stator, the method comprising installing a plurality of concentric coil groups in slots of a stator core as set forth in Table 2.